

# *MULTIPURPOSE VISION SENSOR SYSTEM*

## **Abstract**

A multipurpose sensing system (10) for a vehicle (12) includes an optic (14) that is directed at multiple viewing areas (18). A vision sensor (16) is coupled to the optic (14) and generates multiple object detection signals corresponding to the viewing areas (18). A controller (22) is coupled to the vision sensor (16) and generates multiple safety system signals in response to the object detection signals.